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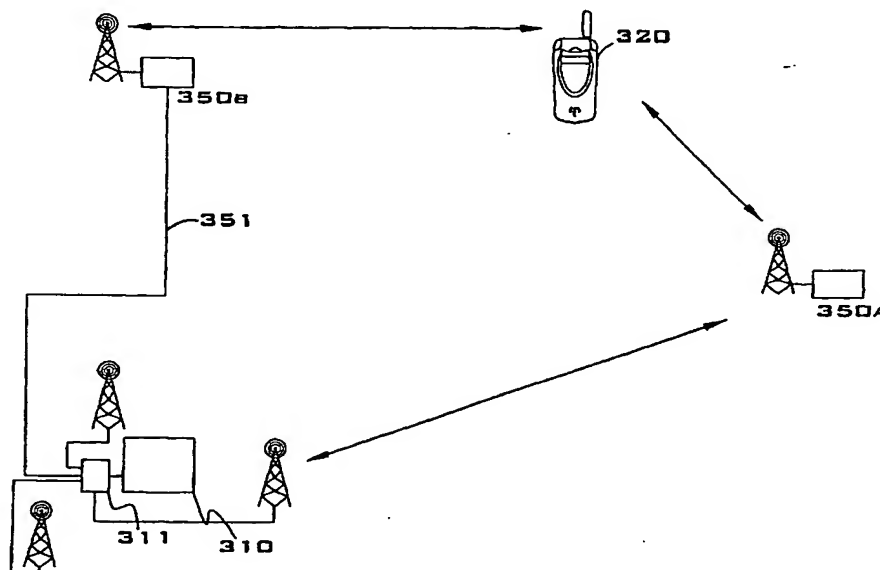
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(54) Title: SYSTEM AND METHOD FO OPERATION FOR NETWORK OVERLAY GEOLOCATION SYSTEM WITH RE-  
PEATERS

(57) Abstract: A novel system and method for a network overlay geolocation system operating in a host wireless communication system with repeaters (350a, 350b) is disclosed. Embodiments of the novel system and method enable the geolocation system to determine if signals being received by the geolocation system arrive directly from a target mobile appliance or if the signals are passing through a repeater (350a, 350b) and therefore are subject to a known time delay. Embodiments of the novel system and method provide a more accurate geolocation of mobiles served by repeater stations than capable in the prior art.